

# Carlos Fernández-Peruchena

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

806  
citations

516710

16  
h-index

501196

28  
g-index

51  
all docs

51  
docs citations

51  
times ranked

845  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of different comparison parameters applied to solar radiation data from satellite and German radiometric stations. <i>Solar Energy</i> , 2009, 83, 118-125.	6.1	111
2	Solar resources and power potential mapping in Vietnam using satellite-derived and GIS-based information. <i>Energy Conversion and Management</i> , 2015, 98, 348-358.	9.2	99
3	Myosin II Contributes to Fusion Pore Expansion during Exocytosis. <i>Journal of Biological Chemistry</i> , 2008, 283, 10949-10957.	3.4	88
4	Is Concentrated Solar Power (CSP) a feasible option for Sub-Saharan Africa?: Investigating the techno-economic feasibility of CSP in Tanzania. <i>Renewable Energy</i> , 2019, 135, 1224-1240.	8.9	64
5	Benchmarking on improvement and site-adaptation techniques for modeled solar radiation datasets. <i>Solar Energy</i> , 2020, 201, 469-479.	6.1	42
6	Fusion pore regulation of transmitter release. <i>Brain Research Reviews</i> , 2005, 49, 406-415.	9.0	34
7	A statistical characterization of the long-term solar resource: Towards risk assessment for solar power projects. <i>Solar Energy</i> , 2016, 123, 29-39.	6.1	32
8	Increasing the temporal resolution of direct normal solar irradiance series in different climatic zones. <i>Solar Energy</i> , 2015, 115, 255-263.	6.1	30
9	A simple and efficient procedure for increasing the temporal resolution of global horizontal solar irradiance series. <i>Renewable Energy</i> , 2016, 86, 375-383.	8.9	25
10	MUS: A multiscale stochastic model for generating plausible meteorological years designed for multiyear solar energy yield simulations. <i>Solar Energy</i> , 2015, 120, 244-256.	6.1	23
11	A comparison of one-minute probability density distributions of global horizontal solar irradiance conditioned to the optical air mass and hourly averages in different climate zones. <i>Solar Energy</i> , 2015, 112, 425-436.	6.1	22
12	Generation of Series of High Frequency DNI Years Consistent with Annual and Monthly Long-term Averages using Measured DNI Data. <i>Energy Procedia</i> , 2014, 49, 2321-2329.	1.8	20
13	High frequency generation of coupled GHI and DNI based on clustered Dynamic Paths. <i>Solar Energy</i> , 2018, 159, 453-457.	6.1	18
14	Site-Adaptation of Modeled Solar Radiation Data: The SiteAdapt Procedure. <i>Remote Sensing</i> , 2020, 12, 2127.	4.0	18
15	New methodology of solar radiation evaluation using free access databases in specific locations. <i>Renewable Energy</i> , 2010, 35, 2792-2798.	8.9	17
16	Methodology to synthetically downscale DNI time series from 1-h to 1-min temporal resolution with geographic flexibility. <i>Solar Energy</i> , 2018, 162, 573-584.	6.1	16
17	Generation of synthetic solar datasets for risk analysis. <i>Solar Energy</i> , 2019, 187, 212-225.	6.1	15
18	Typical Meteorological Year methodologies applied to solar spectral irradiance for PV applications. <i>Energy</i> , 2020, 190, 116453.	8.8	15

#	ARTICLE	IF	CITATIONS
19	Analysis on the long-term relationship between DNI and CSP yield production for different technologies. <i>Solar Energy</i> , 2017, 155, 1121-1129.	6.1	13
20	Probabilistic assessment of concentrated solar power plants yield: The EVA methodology. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 91, 802-811.	16.4	12
21	Photovoltaic generation on vertical façades in urban context from open satellite-derived solar resource data. <i>Solar Energy</i> , 2021, 224, 1396-1405.	6.1	9
22	Dynamic Paths: Towards high frequency direct normal irradiance forecasts. <i>Energy</i> , 2017, 132, 315-323.	8.8	8
23	A Combination of Heliosat-1 and Heliosat-2 Methods for Deriving Solar Radiation from Satellite Images. <i>Energy Procedia</i> , 2014, 57, 1037-1043.	1.8	7
24	Smart Sensors and Virtual Physiology Human Approach as a Basis of Personalized Therapies in Diabetes Mellitus. <i>Open Biomedical Engineering Journal</i> , 2010, 4, 236-249.	0.5	7
25	A New Methodology to Generate Long Time Series of Solar Radiation Based on Stochastic Analysis. <i>Energy Procedia</i> , 2014, 57, 1053-1059.	1.8	6
26	Uncertainty in monthly GHI due to daily data gaps. <i>Solar Energy</i> , 2017, 157, 827-829.	6.1	6
27	Assessment and improvement of modeling the atmospheric attenuation based on aerosol optical depth information with applicability to solar tower plants. <i>Energy</i> , 2020, 208, 118399.	8.8	6
28	FAIR Metadata Standards for Low Carbon Energy Research – A Review of Practices and How to Advance. <i>Energies</i> , 2021, 14, 6692.	3.1	6
29	A clustering approach for the analysis of solar energy yields: A case study for concentrating solar thermal power plants. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	4
30	A novel procedure for generating solar irradiance TSYs. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	4
31	Performance analysis of factory-made thermosiphon solar water heating systems. <i>Renewable Energy</i> , 2021, 164, 1215-1229.	8.9	4
32	Increasing the Temporal Resolution of Direct Normal Solar Irradiance Series in a Desert Location. <i>Energy Procedia</i> , 2015, 69, 1981-1988.	1.8	3
33	PreFlexMS: Predictable Flexible Molten Salts Solar Power Plants. <i>Impact</i> , 2017, 2017, 58-60.	0.1	3
34	Performance Assessment of Seawater, Wet and Dry Cooling in a 50-MW Parabolic Trough Collectors Concentrated Solar Power Plant in Kuwait. <i>Journal of Solar Energy Engineering, Transactions of the ASME</i> , 2022, 144, .	1.8	3
35	A methodology for calculating percentile values of annual direct normal solar irradiation series. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	2
36	Increasing the temporal resolution of direct normal solar irradiance forecasted series. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	2

#	ARTICLE	IF	CITATIONS
37	Solar Power Plant Performance. Green Energy and Technology, 2019, , 283-300.	0.6	2
38	Model-Based Methodology for the Analysis of e-Health Systems Diffusion: Case Study of a Knowledge-Centered Telehealthcare System Based on a Mixed License. Series in Biomedical Engineering, 2009, , 75-94.	0.5	2
39	An Advanced Concept of Altered Auditory Feedback as a Prosthesis-Therapy for Stuttering Founded on a Non-Speech Etiologic Paradigm. , 2011, , 76-118.		2
40	A combination of HARMONIE short time direct normal irradiance forecasts and machine learning: The #hashtdim procedure. AIP Conference Proceedings, 2017, , .	0.4	1
41	The temporal distortion index (TDI). A new procedure to analyze solar radiation forecasts. AIP Conference Proceedings, 2017, , .	0.4	1
42	High-accuracy real-time monitoring of solar radiation attenuation in commercial solar towers. AIP Conference Proceedings, 2019, , .	0.4	1
43	Industrial Application of Synthetic Irradiance: Case Study of Solar Yield. , 2021, , 1-34.		1
44	Sampling Design Optimization of Ground Radiometric Stations. Green Energy and Technology, 2019, , 253-281.	0.6	1
45	Experimental Validation of a Novel Methodology for Fast and Accurate Analysis of Solar Energy Yields Based on Cluster Analysis. , 2016, , .		1
46	A methodology for probabilistic assessment of solar thermal power plants yield. AIP Conference Proceedings, 2017, , .	0.4	0
47	Statcasting: A machine learning based methodology for post-processing ensemble predictions of direct normal solar irradiance. AIP Conference Proceedings, 2018, , .	0.4	0
48	Solar Radiation Estimation and Prediction Through Aerosol and Cloud Cover Forecast. , 2010, , .		0
49	Quality Control and Correction Time of Radiation Measurements at Meteorological Stations. , 2010, , .		0
50	Towards A Feasible Deployment Of Solar Energy Technologies. , 2018, , .		0
51	An Advanced Concept of Altered Auditory Feedback as a Prosthesis-Therapy for Stuttering Founded on a Non-Speech Etiologic Paradigm. , 0, , 1284-1326.		0